

What is claimed is:

1. A method for processing of municipal waste
5 or sludge material representing a main component into
inert material comprising:
 providing said municipal waste or sludge
material in granular form;
 providing a cement material with the
10 granules;
 spraying a polymeric additive over said
granules so as to coat said granules;
 providing a hydroxyl group in an amount of 20
to 50% of the main component, to said granules;
15 shaping or stocking the coated granules.
2. The method as recited in claim 1 wherein
providing a cement powder includes providing CaO and
CaO₃ each in an amount between 5 and 10% in weight of
20 the main component.
3. The method as recited in claim 2 further
comprising spraying the hydroxyl group material on said
granules.
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4. The method as recited in claim 1 further
comprising spraying the hydroxyl group material on said
granules.
5. The method according to claim 1, wherein
said polymeric additive is selected from the group
consisting of vinyl poliacetate, vinyl poliacetate
derivatives, polyurethane, polyurethane derivatives, a
styrene polymer and styrene polymer derivatives.
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6. The method according to claim 1, wherein the substance which provides a high concentration of hydroxyl groups is hydrogen peroxide.

5 7. The method as recited in claim 1 further comprising the step of converting said municipal waste or sludge into said granules.

10 8. The method of claim 7 wherein converting said waste material or sludge into granules includes micronizing the main component to provide fine granular particles prior to coating with the polymeric additive.

15 9. The method of claim 7 further comprising drying by heating said granules prior to coating with the polymeric addition.

20 10. An apparatus for carrying out the process of claim 1, comprising:
a conveyor for conveying the granules;
at least one reservoir positioned for supplying the cement material to said granules;
a reservoir positioned for supplying the polymeric additive to said granules with means for
25 coating the granules with the polymeric material;
a reservoir positioned for supplying the hydroxyl group additive.

30 11. The apparatus as recited in claim 10 wherein said at least one reservoir for said cement material includes a supply means for supplying CaO and CaO_3 to said granules, and said reservoir for said hydroxyl group includes hydrogen peroxide.

35 12. The apparatus as recited in claim 10 wherein said polymeric additives is selected from the group consisting of vinyl poliacetate, vinyl

poliacetate derivatives, polyurethane, polyurethane derivatives, a styrene polymer and styrene polymer derivatives.

5 13. The apparatus as recited in claim 10 wherein said supply means, polymeric additive reservoir and hydroxyl group reservoir are in series.

10 14. The apparatus as recited in claim 10 wherein said hydroxyl group material includes hydrogen peroxide which is sprayed on said granules.